

**Claims**

- 5 1. Grinding apparatus (1) including a number of grinding units (3), a number of drive units (11) and a number of screen units (2), where a number of the grinding units (3) are enclosed by at least one of the screen units (2), and where at least one of the screen units (2) is arranged with a pipe connection (4) adapted for connecting one or more suction units (21), characterised in that the screen unit (2) with the pipe connection (4) is designed along a lower edge (6) with a number of spacer members (7) that are arranged adjustable and replaceable, and with a number of sealing members (8) that fit tightly to an underlying surface, that the spacer members (7) establish an spacing adjustment of the grinding units (3) relatively to an underlying surface, and that the sealing members (8) interact with the suction units (21) for forming a vacuum that holds the grinding apparatus (1) against the said surface during operation.
- 10 2. Grinding apparatus (1) according to claim 1, characterised in that the screen unit (2) with the pipe connection (4) encloses a number of the grinding units (3).
- 15 3. Grinding apparatus (1) according to claim 1, characterised in that the screen unit (2) with the pipe connection (4) is connected with satellite screen units (23) that each encloses a number of the grinding units (3).
- 20 4. Grinding unit (1) according to any of claims 1 - 3, characterised in that each of the screen units (2, 23) include a number of wheels.
- 25 5. Grinding unit (1) according to any of claims 1 - 4, characterised in that the screen units (2, 23) articulated connected with a number of linking rods (22)..
- 30 6. Grinding unit (1) according to any of claims 1 -5, characterised in that the screen units (2, 23) include two screens that are arranged preferably coaxially.
7. Grinding unit (1) according to any of claims 1 -6, characterised in that at least one of the screen units (2) is connected with a longitudinally adjustable handle.

8. Grinding unit (1) according to any of claims 1 -7, characterised in that the grinding units (3) are shaped as circular grinding heads, cylindric grinding rollers and/or polygonal grinding plates.

5 9. Grinding unit (1) according to any of claims 1-8, characterised in that the screen units (3) are replaceable and height adjustable.

10. Grinding unit (1) according to any of claims 1-9, characterised in that the suction units (21) are vacuum pumps, suction cleaners and/or fans.

10

11. Grinding unit (1) according to any of claims 1 -10, characterised in that the screen units (2, 23) include a damper device for reducing vacuum in the screen unit (2, 23).